

## II. AMENDMENTS TO THE CLAIMS:

*This listing of claims will replace all prior versions, and listings, of claims in the application (Section VI).*


### Listing of Claims:

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Claims 1-19 (cancelled)

20. (previously presented) A three-dimensional structure comprising:

at least three compression members situated on the surface of a first hyperboloid of revolution of one sheet having a mid-plane that is perpendicular to the conjugate axis of said first hyperboloid, wherein each said at least three compression members includes:

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- a first portion located on the surface of said first hyperboloid on one side of the mid-plane of said first hyperboloid; and
  - a second portion located on the surface of said first hyperboloid on the other, second side of the mid-plane of said first hyperboloid;

a first set of at least three tension members that connect said first compression member portions with one another;

a second set of at least three tension members that connect said second compression member portions with one another; and

a third set of at least three tension members that each connects at least one of said first compression member portions with at least one of said second compression member portions of a different compression member,

wherein at least three tension members are configured in a radial configuration.

21. (previously presented) A three-dimensional structure as described in claim 20 wherein said at least three tension members configured in a radial configuration are of said first set of at least three tension members.

22. (previously presented) A three-dimensional structure as described in claim 20 wherein said at least three tension members configured in a radial configuration are of said second set of at least three tension members.

23. (previously presented) A three-dimensional structure as described in claim 20 wherein said third set of at least three tension members is situated on the surface of a second hyperboloid of revolution of one sheet.

24. (previously presented) A three-dimensional structure comprising:

at least three compression members situated on the surface of a first hyperboloid of revolution of one sheet having a mid-plane that is perpendicular to the conjugate axis of said first hyperboloid, wherein each said at least three compression members includes:

- a first portion located on the surface of said first hyperboloid on one side of the mid-plane of said first hyperboloid; and
- a second portion located on the surface of said first hyperboloid on the other, second side of the mid-plane of said first hyperboloid;

a first set of at least three tension members that connects said first compression member portions with one another;

a second set of at least three tension members that connects said second compression member portions with one another; and

a third set of at least three tension members that each connects at least one of said first compression member portions with at least one of said second compression member portions of a different compression member,

wherein at least one tension member is configured in an internal configuration.

25. (previously presented) A three-dimensional structure as described in claim 24 wherein said at least one tension members configured in an internal configuration is of said first set of at least three tension members.

26. (previously presented) A three-dimensional structure as described in claim 24 wherein said at least one tension members configured in an internal configuration is of said second set of at least three tension members.

27. (previously presented) A three-dimensional structure as described in claim 24 wherein said at least one tension members configured in an internal configuration is of said first third of at least three tension members.

28. (previously presented) A three-dimensional structure as described in claim 24 wherein said third set of at least three tension members is situated on the surface of a second hyperboloid of revolution of one sheet.

29. (previously presented) A three-dimensional structure comprising:

at least three compression members that each lie on the surface of one of at least three different planes that intersect one another; and

a set of at least six tension members that connects each of said at least three compression members with at least one other compression member of said at least three compression members,

wherein at least three tension members of said set of at least six tension members are arranged in a radial configuration.

30. (previously presented) A three-dimensional structure comprising:

at least three compression members that each lie on the surface of one of at least three different planes that intersect one another; and

a set of at least six tension members that connects each of said at least three compression members with at least one other compression member of said at least three compression members,

wherein at least one tension member of said set of at least six tension members is arranged in an internal configuration.

31. (previously presented) A three-dimensional structure comprising:

at least four compression members that lie on the surfaces of two different planes that intersect one another; and

a set of at least six tension members that connects each of said at least four compression members with at least one other compression member of said at least four compression members.

32. (previously presented) A three-dimensional structure as described in claim 31 wherein at least one tension member is arranged in an internal configuration.

33. (previously presented) A three-dimensional structure as described in claim 31 wherein at least three tension members are arranged in a radial configuration.

34. (previously presented) A three-dimensional structure as described in claim 31 wherein at least one tension member is arranged in a circumferential configuration.

35. (previously presented) A three-dimensional structure comprising:

a first set of at least two compression members situated on the surface of a first hyperbolic paraboloid;

a second set of at least two compression members situated on the surface of a second hyperbolic paraboloid; and

a set of at least twelve tension members which connect said compression members with one another,

wherein said second hyperbolic paraboloid surface intersects said first hyperbolic paraboloid surface.

36. (previously presented) A three-dimensional structure as described in claim 35 wherein at least one of said at least twelve tension members is arranged in an internal configuration.

37. (previously presented) A three-dimensional structure as described in claim 35 wherein at least three of said set of at least twelve tension members are arranged in a radial configuration.

38. (previously presented) A three-dimensional structure as described in claim 35 wherein at least one of said set of at least twelve tension members is arranged in a circumferential configuration.

Claims 39 - 42 (cancelled)

43. (previously presented) A three-dimensional structure comprising:

at least four compression members;

an outer set of at least six tension members that connects said at least four compression members with one another at outer tension member attachments; and

an inner set of at least four tension members that connects said at least four compression members with one another at inner tension member attachments,

wherein said inner tension member attachments and said outer tension member attachments are disposed on said at least four compression members,

wherein said outer tension member attachments define an outer enclosing surface that has only polygonal faces, and

wherein said inner tension member attachments are disposed within said outer enclosing surface.

44. (previously presented) A three-dimensional structure as described in claim 43 wherein at least one tension member is arranged in an internal configuration.

45. (previously presented) A three-dimensional structure as described in claim 43 wherein at least three tension members are arranged in a radial configuration

46. (previously presented) A three-dimensional structure as described in claim 43 wherein at least three tension members are arranged in a circumferential configuration.

47. (previously presented) A three-dimensional structure comprising:

at least three compression members; and

at least six tension members that connect said at least three compression members with one another,

wherein at least three of said at least six tension members are arranged in a radial configuration.

48. (previously presented) A three-dimensional structure comprising:

at least three compression members; and

a set of at least six tension members that connect said at least three compression members with one another, and

wherein at least one of said tension members is arranged in an internal configuration.

49. (previously presented) A three-dimensional structure comprising:

at least three compression members,

wherein at least two of said at least three compression members are situated on the surface of a first hyperboloid of revolution of one sheet;

wherein at least one other compression member of said at least three compression members is situated on the surface of at least a second hyperboloid of revolution of one sheet,

wherein each said hyperboloid of revolution of one sheet has a mid-plane that is perpendicular to the conjugate axis of the hyperboloid, and

wherein each said at least three compression members includes:

- a first portion situated on one side of the mid-plane of the hyperboloid upon which it is situated;
- a second portion situated on the other side of the mid-plane of the hyperboloid upon which it is situated;

a first set of at least three tension members that connect said first compression member portions with one another;

a second set of at least three tension members that connect said second compression member portions with one another; and

a third set of at least three tension members that each connect at least one of said first compression member portions with at least one of said second compression member portions of a different compression member.

50. (previously presented) A three-dimensional structure as described in claim 49 wherein at least one of said tension members is arranged in an internal configuration.



51. (previously presented) A three-dimensional structure as described in claim 49 wherein at least three of said tension members are arranged in a radial configuration.
52. (previously presented) A three-dimensional structure as described in claim 49 wherein at least one of said tension members are arranged in a circumferential configuration.
53. (currently amended) A three-dimensional structure as described in any one of ~~claims 15,~~ claims 20, 24, 29, 30, 31, 35, 39, ~~43, 47,~~ 43, 47, 48, or 49 wherein each of said compression members is straight.
54. (currently amended) A three-dimensional structure as described in any one of ~~claims 15,~~ claims 20, 24, 29, 30, 31, 35, 39, ~~43, 47,~~ 43, 47, 48 or 49 wherein each said tension members attaches ends of at least two compression members.
55. (currently amended) Compression members and tension members that are configurable to form the three-dimensional structure as described in any one of ~~claims 15,~~ claims 20, 24, 29, 30, 31, 35, 39, ~~43, 47,~~ 43, 47, 48 or 49.
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